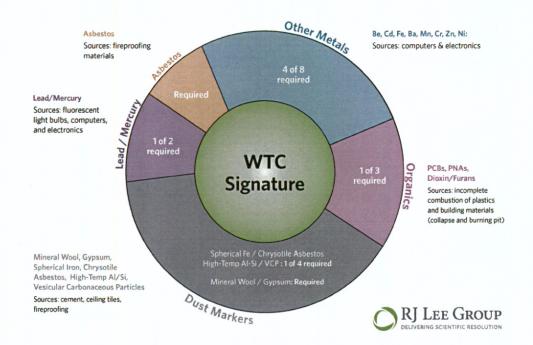
Officer Harris Uniform



WTC Signature Components Required for Positive Identification



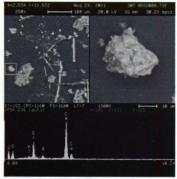
Health Problems Associated with WTC Hazardous Substances Exceeding COPC Committee Health-Based Screening Levels or Benchmarks in the Building

Health Problems	WTC Hazardous Substance		
Cancer	Asbestos, cadmium, dioxins, PCBs		
Fertility/birth defects	Dioxins, lead mercury, PCBs		
Brain and nerve disease	Lead, mercury, manganese		
Liver disease	Chromium, copper, dioxin, PCBs		
Kidney disease	Cadmium, chromium, copper lead, mercury		
Lung and respiratory disorders	Asbestos, barium, cadmium, chromium, copper, mercury, mold and bacteria		
Blood and bone disorders	Cadmium, lead, zinc		
Heart disease	Barium		
Immune system disease	Chromium, dioxins, mercury, nickel		

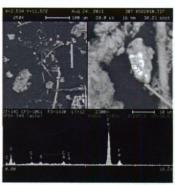
Comparison of Laboratory Results to WTC Dust Classification Criteria

Analysis Type	Results from Pants		Results from Shirt	
Dust Characterization by SEM (min. 100 random particles)	Mineral Wool Chrysotile		Gypsum (Ca/S-rich)	
Asbestos by TEM	59,000 Structures/cm2 (Chrysotile)		5,900 Structures/cm2 (Chrysotile)	
Mercury/Lead by ICP	Lead: 279 μg/ft2		Lead: 93 μg/ft2	
Heavy Metals by ICP	Barium:	432 μg/ft2	Barium:	119 μg/ft2
	Chromium:	347 μg/ft ²	Chromium:	3,160 µg/ft2
	Manganese:	853 μg/ft ²	Manganese:	2,630 μg/ft ²
	Zinc:	2,770 μg/ft2	Zinc:	1,640 µg/ft2
	Copper:	929 μg/ft2	Copper:	369 µg/ft2
	Cadmium:	14 μg/ft2	Cadmium:	< 9 µg/ft2
	Nickel:	277 μg/ft2	Nickel:	178 μg/ft ²
Semi-volatile Organics	PCBs:	1.2 μg/ft2	PCBs:	1.1 μg/ft2
	(pcb - aroclor 1260)		(pcb - aroclor 1260)	
	PNAs:	$32 \mu g/ft^2$	PNAs:	non-detect
	(EPA BAP Equiv. Basis)		(EPA BAP Equiv. Basis)	
	Dioxins/Furans: 70 pg/ft2		Dioxins/Furans: 49 pg/ft2	
	(WHO TEQ Basis)		(WHO TEQ Basis)	
Summary	Positive for WTC Dust		Positive for WTC Dust	

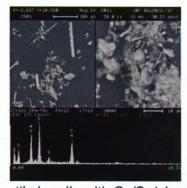
WTC Particulate Found on Officer Harris Uniform



Ca/Si-rich particle (e.g., possible cement) images and EDS spectrum from SEM adhesive stub obtained from uniform pants.



Fe-rich particle images and EDS spectrum from SEM adhesive stub obtained from uniform pants.



Chrysotile bundle with Ca/S-rich matrix images and EDS spectrum from SEM adhesive stub obtained from uniform pants.



High magnification SEM image of chrysotile fibers with matrix material from adhesive stub obtained from uniform pants.

Relative Toxicity (Carcinogenicity) of Total Asbestos Fibers from the WTC Dust as Compared to Other Sources

